

## PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Assistant Commissioner for Patents  
 United States Patent and Trademark  
 Office  
 Box PCT  
 Washington, D.C.20231  
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

<b>Date of mailing</b> (day/month/year) 11 May 2000 (11.05.00)	
<b>International application No.</b> PCT/NZ99/00149	<b>Applicant's or agent's file reference</b> JM502048/142
<b>International filing date</b> (day/month/year) 07 September 1999 (07.09.99)	<b>Priority date</b> (day/month/year) 08 September 1998 (08.09.98)
<b>Applicant</b> ELLIS, Philip, George	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

30 March 2000 (30.03.00)

☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Juan Cruz Telephone No.: (41-22) 338.83.38
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## PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING  
OF A CHANGE(PCT Rule 92bis.1 and  
Administrative Instructions, Section 422)

To:

HAWKINS, Michael, Howard  
Baldwin Shelston Waters  
NCR Building  
342 Lambton Quay  
Wellington  
NOUVELLE-ZÉLANDE

Date of mailing (day/month/year) 20 September 2000 (20.09.00)	<b>IMPORTANT NOTIFICATION</b>
Applicant's or agent's file reference JM502048/142	
International application No. PCT/NZ99/00149	International filing date (day/month/year) 07 September 1999 (07.09.99)

1. The following indications appeared on record concerning:		
<input checked="" type="checkbox"/> the applicant	<input type="checkbox"/> the inventor	<input type="checkbox"/> the agent <input type="checkbox"/> the common representative
Name and Address INTERNATIONAL BUILDING SYSTEMS (NZ) LIMITED 12 Bushland Park Drive Albany Auckland New Zealand	State of Nationality NZ	State of Residence NZ
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
<input checked="" type="checkbox"/> the person	<input checked="" type="checkbox"/> the name	<input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence
Name and Address IBS GROUP LIMITED 13 Tarnedale Grove Albany Auckland New Zealand	State of Nationality NZ	State of Residence NZ
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned	
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned	
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Dominique DEUMAS
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

## PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING  
OF A CHANGE(PCT Rule 92bis.1 and  
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

HAWKINS, Michael, Howard  
Baldwin Shelston Waters  
NCR Building  
342 Lambton Quay  
Wellington  
NOUVELLE-ZÉLANDE

RECEIVED WGTN  
- 6 OCT 2000  
Posted as WGTN

Date of mailing (day/month/year)  
20 September 2000 (20.09.00)

Applicant's or agent's file reference  
JM502048/142

International application No.  
PCT/NZ99/00149

## IMPORTANT NOTIFICATION

International filing date (day/month/year)  
07 September 1999 (07.09.99)

## 1. The following indications appeared on record concerning:

☒ the applicant ☐ the inventor ☐ the agent ☐ the common representative

## Name and Address

ELLIS, Linley, Ann  
and  
COKER, John, Louis

## State of Nationality

NZ

## State of Residence

NZ

Telephone No.

Facsimile No.

Teleprinter No.

## 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☒ the person ☒ the name ☒ the address ☐ the nationality ☐ the residence

## Name and Address

INTERNATIONAL BUILDING SYSTEMS  
(NZ) LIMITED  
12 Bushland Park Drive  
Albany  
Auckland  
New Zealand

## State of Nationality

NZ

## State of Residence

NZ

Telephone No.

Facsimile No.

Teleprinter No.

## 3. Further observations, if necessary:

**The above-mentioned applicants are to be considered as inventors only, since they assigned their rights for all designated States except US to a new applicant as indicated below.**  
**ELLIS, Philip, George remains applicant/inventor for US only.**

## 4. A copy of this notification has been sent to:

☒ the receiving Office ☐ the designated Offices concerned  
☐ the International Searching Authority ☒ the elected Offices concerned  
☐ the International Preliminary Examining Authority ☐ other:

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Dominique DELMAS

Telephone No.: (41-22) 338.83.38

PCT

## REQUEST

The undersigned requests that the present international applications be processed according to the Patent Cooperation Treaty.

For Receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum)  
JM502048/142

**Box No. I TITLE OF INVENTION**  
**BUILDING FRAME AND METHOD OF CONSTRUCTION**

**Box No. II APPLICANT**

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (i.e. country) of residence if no State of residence is indicated below.)

ELLIS, Philip George  
12 Bushland Park Drive  
Albany  
Auckland  
New Zealand

☒ This person is also inventor.

Telephone No. (09) 415 4270

Facsimile No. (09) 415 4271

Teleprinter No.

State (i.e. country) of nationality: New Zealand

State (i.e. country) of residence: New Zealand

This person is applicant for the purposes of:

☐

all designated States

☐

all designated States except the United States of America

☒

the United States of America only

☐

the States indicated in the Supplemental Box

**Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)**

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (i.e. country) of residence if no State of residence is indicated below.)

ELLIS, Lynley Ann  
12 Bushland Park Drive  
Albany  
Auckland  
New Zealand (As trustee of W C Ellis Family Trust)

This person is

☒ applicant only

☐ applicant and inventor

☐ inventor only (If this check-box is marked, do not fill in below)

State (i.e. country) of nationality: New Zealand

State (i.e. country) of residence: New Zealand

This person is applicant for the purposes of:

☐

all designated States

☒

all designated States except the United States of America

☐

the United States of America only

☐

the States indicated in the Supplemental Box

☒

Further applicant and/or (further) inventors are indicated on a continuation sheet.

**Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

☒

agent

☐

common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country)

HAWKINS, Michael Howard PAIRMAN, Jane Elizabeth  
TERRY, John Kinnear  
THOREAU, Philip Aubyn Bertram  
ELLIOTT, Clive Lincoln BALDWIN SHELSTON WATERS  
BALLANCE, Julie Anne NCR Building  
MONK, Jonathan Paul 342 Lambton Quay  
JACKSON, Timothy Graham Wellington  
LYTH, Richard John NEW ZEALAND

Telephone No. (04) 472-1094

Facsimile No. (04) 494-0299

Teleprinter No. NZ 3918

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III <b>FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)</b>	
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (i.e. country) of residence if no State of residence is indicated below.)</i>  COKER, John Louis 1 Burnside Court Albany Auckland New Zealand (As trustee of W C Ellis Family Trust)	This person is  <input checked="" type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below)</i>
State (i.e. country) of nationality:    New Zealand	State (i.e. country) of residence:    New Zealand
This person is applicant for the purposes of : <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (i.e. country) of residence if no State of residence is indicated below.)</i>    	This person is  <input type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below)</i>
State (i.e. country) of nationality:	State (i.e. country) of residence:
This person is applicant for the purposes of : <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (i.e. country) of residence if no State of residence is indicated below.)</i>    	This person is  <input type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below)</i>
State (i.e. country) of nationality:	State (i.e. country) of residence:
This person is applicant for the purposes of : <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (i.e. country) of residence if no State of residence is indicated below.)</i>    	This person is  <input type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below)</i>
State (i.e. country) of nationality:	State (i.e. country) of residence:
This person is applicant for the purposes of : <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	

**Box No.V DESIGNATION OF STATES**

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes: at least one must be marked):

**Regional Patent**

- ☒ **AP** ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☒ **EA** Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ **EP** European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ **OA** OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line): .....

**National Patent (if other kind of protection or treatment desired, specify on dotted line):**

- |   |                                       |  |   |
|---|---------------------------------------|--|---|
| <input checked="" type="checkbox"/> AE        | United Arab Emirates                  | <input checked="" type="checkbox"/> LS | Lesotho                                   |
| <input checked="" type="checkbox"/> AL        | Albania                               | <input checked="" type="checkbox"/> LT | Lithuania                                 |
| <input checked="" type="checkbox"/> AM        | Armenia                               | <input checked="" type="checkbox"/> LU | Luxembourg                                |
| <input checked="" type="checkbox"/> AT        | Austria (and Utility Model)           | <input checked="" type="checkbox"/> LV | Latvia                                    |
| <input checked="" type="checkbox"/> AU        | Australia                             | <input checked="" type="checkbox"/> MD | Republic of Moldova                       |
| <input checked="" type="checkbox"/> AZ        | Azerbaijan                            | <input checked="" type="checkbox"/> MG | Madagascar                                |
| <input checked="" type="checkbox"/> BA        | Bosnia and Herzegovina                | <input checked="" type="checkbox"/> MK | The former Yugoslav Republic of Macedonia |
| <input checked="" type="checkbox"/> BB        | Barbados                              |  |   |
| <input checked="" type="checkbox"/> BG        | Bulgaria                              | <input checked="" type="checkbox"/> MN | Mongolia                                  |
| <input checked="" type="checkbox"/> BR        | Brazil                                | <input checked="" type="checkbox"/> MW | Malawi                                    |
| <input checked="" type="checkbox"/> BY        | Belarus                               | <input checked="" type="checkbox"/> MX | Mexico                                    |
| <input checked="" type="checkbox"/> CA        | Canada                                | <input checked="" type="checkbox"/> NO | Norway                                    |
| <input checked="" type="checkbox"/> CH and LI | Switzerland and Liechtenstein         | <input checked="" type="checkbox"/> NZ | New Zealand                               |
| <input checked="" type="checkbox"/> CN        | China                                 | <input checked="" type="checkbox"/> PL | Poland                                    |
| <input checked="" type="checkbox"/> CU        | Cuba                                  | <input checked="" type="checkbox"/> PT | Portugal                                  |
| <input checked="" type="checkbox"/> CZ        | Czech Republic (and Utility Model)    | <input checked="" type="checkbox"/> RO | Romania                                   |
| <input checked="" type="checkbox"/> DE        | Germany (and Utility Model)           | <input checked="" type="checkbox"/> RU | Russian Federation                        |
| <input checked="" type="checkbox"/> DK        | Denmark (and Utility Model)           | <input checked="" type="checkbox"/> SD | Sudan                                     |
| <input checked="" type="checkbox"/> EE        | Estonia (and Utility Model)           | <input checked="" type="checkbox"/> SE | Sweden                                    |
| <input checked="" type="checkbox"/> ES        | Spain                                 | <input checked="" type="checkbox"/> SG | Singapore                                 |
| <input checked="" type="checkbox"/> FI        | Finland (and Utility Model)           | <input checked="" type="checkbox"/> SI | Slovenia                                  |
| <input checked="" type="checkbox"/> GB        | United Kingdom                        | <input checked="" type="checkbox"/> SK | Slovakia (and Utility Model)              |
| <input checked="" type="checkbox"/> GD        | Grenada                               | <input checked="" type="checkbox"/> SL | Sierra Leone                              |
| <input checked="" type="checkbox"/> GE        | Georgia                               | <input checked="" type="checkbox"/> TJ | Tajikistan                                |
| <input checked="" type="checkbox"/> GH        | Ghana                                 | <input checked="" type="checkbox"/> TM | Turkmenistan                              |
| <input checked="" type="checkbox"/> GM        | Gambia                                | <input checked="" type="checkbox"/> TR | Turkey                                    |
| <input checked="" type="checkbox"/> HR        | Croatia                               | <input checked="" type="checkbox"/> TT | Trinidad and Tobago                       |
| <input checked="" type="checkbox"/> HU        | Hungary                               | <input checked="" type="checkbox"/> UA | Ukraine                                   |
| <input checked="" type="checkbox"/> ID        | Indonesia                             | <input checked="" type="checkbox"/> UG | Uganda                                    |
| <input checked="" type="checkbox"/> IL        | Israel                                | <input checked="" type="checkbox"/> US | United States of America                  |
| <input checked="" type="checkbox"/> IN        | India                                 |  |   |
| <input checked="" type="checkbox"/> IS        | Iceland                               | <input checked="" type="checkbox"/> UZ | Uzbekistan                                |
| <input checked="" type="checkbox"/> JP        | Japan                                 | <input checked="" type="checkbox"/> VN | Viet Nam                                  |
| <input checked="" type="checkbox"/> KE        | Kenya                                 | <input checked="" type="checkbox"/> YU | Yugoslavia                                |
| <input checked="" type="checkbox"/> KG        | Kyrgyzstan                            | <input checked="" type="checkbox"/> ZA | South Africa                              |
| <input checked="" type="checkbox"/> KP        | Democratic People's Republic of Korea | <input checked="" type="checkbox"/> ZW | Zimbabwe                                  |
| <input checked="" type="checkbox"/> KR        | Republic of Korea                     |  |   |
| <input checked="" type="checkbox"/> KZ        | Kazakhstan                            |  |   |
| <input checked="" type="checkbox"/> LC        | Saint Lucia                           |  |   |
| <input checked="" type="checkbox"/> LK        | Sri Lanka                             | <input checked="" type="checkbox"/> CR | Costa Rica                                |
| <input checked="" type="checkbox"/> LR        | Liberia                               | <input checked="" type="checkbox"/> DM | Dominica                                  |

Check-boxes reserved for designating States (for the purposes of a national patent) which have become party to the PCT after issuance of this sheet:

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit).

<b>Box No. VI      PRIORITY CLAIM</b>		<input type="checkbox"/> Further priority claims are indicated in the Supplemental Box		
Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is		
		national application: country	regional application: * regional Office	international application: receiving Office
item (1) 08/09/98 8 September 1998	331788	New Zealand NZ		
Item (2)				
item (3)				

☒ The receiving Office is hereby requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) *(only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office)* identified above as item(s): 1

\*Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

## Box No. VII INTERNATIONAL SEARCHING AUTHORITY

**Choice of International Searching Authority (ISA)** (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

**Request to use results of earlier search:** reference to that search (*if an earlier search has been carried out by or requested from the International Searching Authority*):

ISÀ / AU

Country (or regional Office)

### Box No. VIII CHECK LIST: LANGUAGE OF FILING

This international application contains  
the following **number of sheets**:

request	:	4
description (excluding sequence listing part)	:	9
claims	:	4
abstract	:	1
drawings	:	6
sequence listing part of description	:	

**Total number of sheets:** 24

This international application is **accompanied** by the item(s) marked below:

1. ☒ fee calculation sheet
2. ☐ separate signed power of attorney
3. ☐ copy of general power of attorney; reference number, if any:
4. ☐ statement explaining lack of signature;
5. ☐ priority document(s) identified in Box No. VI as item(s);
6. ☐ translation of international application into (language);
7. ☐ separate indications concerning deposited microorganism or other biological material
8. ☐ nucleotide and/or amino acid sequence listing in computer readable form
9. ☐ other (*specify*):

**Figure of the drawings which should accompany the abstract:** 4

**Language of filing of the International application:** English

**Box No. IX SIGNATURE OF APPLICANT OR AGENT**

*Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).*

### Jonathan Paul Monk as Agent

For receiving Office use only	
1. Date of actual receipt of the purported international application:	2. Drawings:  <input type="checkbox"/> received:  <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority (if two or more are competent): ISA/	
6. <input type="checkbox"/> Transmittal of search copy delayed until search fee if paid	

Date of receipt of the record copy by International Bureau:	For International Bureau use only
--	-----------------------------------

**PCT****FEE CALCULATION SHEET**  
**Annex to the Request**

International Application No

Date stamp of the receiving Office

Applicant's or Agent's

File reference: JM502048/142

Applicant ELLIS, Philip George; ELLIS, Lynley Ann; COKER, John Louis

**CALCULATION OR PRESCRIBED FEES**1. TRANSMITTAL FEE \$180.00 ☐ T2. SEARCH FEE \$ 910.00 ☐ SInternational search to be carried out by AU*(if two or more International Searching Authorities are competent in relation the international application, indicate the name of the Authority which is chosen to carry out the international search.)*

3. INTERNATIONAL FEE

**Basic Fee**The international application contains 24 sheets.

First 30 sheets

850.00 ☐ b<sub>1</sub>\$20.000.00 ☐ b<sub>2</sub>

remaining sheets

additional amount

Add amounts entered at b1 and b2 and enter total at B

850.00 ☐ B**Designation Fees**

The international application contains designations.

maximum x\$196.00\$1,960.00 ☐ DNumber of designation  
fees payable (maximum 10)

amount of designation fee

Add amounts entered at B and D and enter total at I

\$2,810.00 ☐ I

4. FEE FOR PRIORITY DOCUMENT

30.00 ☐ P

5. TOTAL FEES PAYABLE

Add amounts entered at T, S, I and P, and enter total in TOTAL box

\$3,930.00  
**TOTAL**☐ The designation fees are not paid at this time.**MODE OF PAYMENT**☐ authorization to charge  
deposit account (see below)☐ bank draft☐ coupons☒ cheque☐ cash☐ other (specify)☐ postal money order☐ revenue stamps**DEPOSIT ACCOUNT AUTHORIZATION** (this mode of payment may not be available at all receiving Offices)The RO/ ☐

is hereby authorized to charge the total fees indicated above to my deposit account.

☐

is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account.

☐

is hereby authorized to charge the fee for preparation and transmittal of the priority document to the International Bureau of WIPO to my deposit account.

Deposit Account Number

Date (day/month/year)

Signature



The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/AU \_\_\_\_\_

# PCT

## CHAPTER II

### DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use \_\_\_\_\_

Identification of IPEA		Date of receipt of DEMAND
<b>Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION</b>		Applicant's or agent's file reference JM502048/142
International application No. PCT/NZ99/00149	International filing date (day/month/year) 7 September 1999	(Earliest) Priority date (day/month/year) 8 September 1998
Title of invention BUILDING FRAME AND METHOD OF CONSTRUCTION		
<b>Box No. II APPLICANT(S)</b>		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country)  ELLIS, Philip George 12 Bushland Park Drive Albany Auckland New Zealand		Telephone No. (09) 415 4270  Facsimile No. (09) 415 4271  Teleprinter No.
State (i.e. country) of nationality: New Zealand	State (i.e. country) of residence: New Zealand	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country)  ELLIS, Lynley Ann 12 Bushland Park Drive Albany Auckland New Zealand (As trustee of W C Ellis Family Trust)		
State (i.e. country) of nationality: New Zealand	State (i.e. country) of residence: New Zealand	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country)  COKER, John Louis 1 Burnside Court Albany Auckland New Zealand (As trustee of W C Ellis Family Trust)		
State (i.e. country) of nationality: New Zealand	State (i.e. country) of residence: New Zealand	
<input type="checkbox"/> Further applicants are indicated on a continuation sheet.		

**Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**The following person is ☒ agent ☐ common representative

- and ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.
- ☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.
- ☐ is hereby appointed, specifically for the procedure before the International Preliminary Examination Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address: *(Family name followed by given name, for a legal entity, full official designation. The address must include postal code and name of country)*

HAWKINS, Michael Howard;  
THOREAU, Philip Aubyn Bertram  
ELLIOTT, Clive Lincoln  
TERRY, John Kinnear  
BALLANCE, Julie Anne  
MONK, Jonathan Paul  
JACKSON, Timothy Graham  
LYTH, Richard John

PAIRMAN, Jane Elizabeth  
LYNCH, Gregory Paul  
SUTTON, Angela Aitchison  
ROBINSON, Katie Jane

BALDWIN SHELSTON WATERS  
NCR Building, 342 Lambton Quay  
WELLINGTON 6001  
NEW ZEALAND

Telephone No. (04) 472-1094

Facsimile No. (04) 494-0299

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent

**Box No. IV STATEMENT CONCERNING AMENDMENTS****Statement concerning amendments\***

1. The applicant wishes the international preliminary examination to start on the basis of:

- ☒ the international application as originally filed
- the description ☐ as originally filed  
☐ as amended under Article 34
- the claims ☐ as originally filed  
☐ as amended under Article 19 (together with any accompanying statement)  
☐ as amended under Article 34

2. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.
3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). *(This check-box may be marked only where the time limit under Article 19 has not yet expired).*

\* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

**Language for the purposes of international preliminary examination: English**

- ☒ which is the language in which the international application was filed.
- ☐ which is the language of a translation furnished for the purposes of international search.
- ☐ which is the language of publication of the international application.
- ☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.

**Box No. V ELECTION OF STATES**

The applicant hereby elects all eligible States *(that is, all States which have been designated and which are bound by Chapter 11 of the PCT)*

excluding the following states which the applicant wishes not to elect:

**Box No. VI CHECK LIST**

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

- |  |   |       |        |
|--|---|-------|--------|
| 1. Translation of international application                              | : | _____ | sheets |
| 2. amendments under Article 34   | : | _____ | sheets |
| 3. copy (or, where required, translation) of amendments under Article 19 | : | _____ | sheets |
| 4. copy (or, where required, translation) of statement under Article 19  | : | _____ | sheets |
| 5. letter  | : | _____ | sheets |
| 6. other ( <i>specify</i> )  | : | _____ | sheets |

**For International Preliminary Examining Authority use only**

received	not received
----------	--------------

- |                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

The demand is also accompanied by the item(s) marked below:

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> fee calculation sheet                             | 4. <input type="checkbox"/> statement explaining lack of signature                                   |
| 2. <input type="checkbox"/> separate signed power of attorney                            | 5. <input type="checkbox"/> Nucleotide and or amino acid sequence listing in computer readable form) |
| 3. <input type="checkbox"/> copy of general power of attorney; reference number, if any: | 6. <input type="checkbox"/> other ( <i>specify</i> ):  |

**Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE**

*Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).*

\_\_\_\_\_  
Jonathan Paul Monk (as agent)

**For International Preliminary Examining Authority Use Only**

- |  |  |
|--|--|
| 1. Date of actual receipt of DEMAND:   |  |
| 2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):   |  |
| 3. <input type="checkbox"/> The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.                        | <input type="checkbox"/> The applicant has been informed accordingly |
| 4. <input type="checkbox"/> The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.                               |  |
| 5. <input type="checkbox"/> Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82. |  |

**For International Bureau Use Only**

Demand received from IPEA on:

# PCT

## CHAPTER II

### FEE CALCULATION SHEET

Annex to the Demand for international preliminary examination

International application No.: PCT/NZ99/00149	For International Preliminary Examining Authority Use Only  Date stamp of the IPEA
Applicant's or Agent's File reference: JM502048/142	
Applicant ELLIS, Philip George; ELLIS, Lynley Ann and COKER, John Louis	
<b>Calculation of Prescribed Fees</b>	
1. Preliminary examination fee	<u>A\$450.00</u> P
2. Handling fee <i>(Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)</i>	<u>A\$238.00</u> H
3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box .....	<u>A\$688.00</u> <b>TOTAL</b>
<b>Mode of Payment</b>	
<input type="checkbox"/> authorization to charge deposit account with the IPEA (see below)	<input type="checkbox"/> bank draft
<input checked="" type="checkbox"/> cheque	<input type="checkbox"/> coupons
<input type="checkbox"/> postal money order	<input type="checkbox"/> cash
	<input type="checkbox"/> revenue stamps
<input type="checkbox"/> other (specify)	
<b>Deposit Account Authorization</b> <i>(this mode of payment may not be available at all IPEAs)</i>	
The IPEA/AU <input type="checkbox"/> is hereby authorized to charge the total fees indicated above to my deposit account.	
<input type="checkbox"/> <i>(this check-box may be marked only if the conditions for deposit accounts of the IPEA so permit)</i> is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account	
Deposit Account Number	Date (day/month/year)
Signature	

16

**PATENT COOPERATION TREATY**  
**PCT**  
**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**

REC'D 19 JUL 2000

WIPO

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JM502048/142	<b>FOR FURTHER ACTION</b>	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).
International application No. <b>PCT/NZ99/00149</b>	International filing date ( <i>day/month/year</i> ) 7 September 1999	Priority Date ( <i>day/month/year</i> ) 8 September 1998
International Patent Classification (IPC) or national classification and IPC  <b>Int. Cl. <sup>7</sup> E04B 2/58, E04C 3/07, B21D 47/00</b>		
Applicant ELLIS, Philip George et al		

1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.  <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of sheet(s).
3.	This report contains indications relating to the following items:  I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input checked="" type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input checked="" type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 30 March 2000	Date of completion of the report 6 July 2000
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer  <b>JON MILLS</b>  Telephone No. (02) 6283 2113

**I. Basis of the report****1. With regard to the elements of the international application:\***

- ☒ the international application as originally filed.
- ☐ the description,        pages , as originally filed,  
    pages , filed with the demand,  
    pages , received on    with the letter of
- ☐ the claims,                pages , as originally filed,  
    pages , as amended (together with any statement) under Article 19,  
    pages , filed with the demand,  
    pages , received on    with the letter of
- ☐ the drawings,            pages , as originally filed,  
    pages , filed with the demand,  
    pages , received on    with the letter of
- ☐ the sequence listing part of the description:  
    pages , as originally filed  
    pages , filed with the demand  
    pages , received on    with the letter of

**2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.**

These elements were available or furnished to this Authority in the following language which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

**3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:**

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

**4. ☐ The amendments have resulted in the cancellation of:**

- ☐ the description,        pages
- ☐ the claims,                Nos.
- ☐ the drawings,            sheets/fig.

**5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\***

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

**III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability**

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be nonobvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application,

☒ claims Nos: **13-15,18,20**

because:

☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (*specify*):

☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. are so unclear that no meaningful opinion could be formed (*specify*):

☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.

☒ no international search report has been established for said claim Nos. **13-15,18,20**

2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:

☐ the written form has not been furnished or does not comply with the standard.

☐ the computer readable form has not been furnished or does not comply with the standard.

**IV. Lack of unity of invention**

1. In response to the invitation to restrict or pay additional fees the applicant has:

- ☐ restricted the claims.
- ☐ paid additional fees.
- ☐ paid additional fees under protest.
- ☐ neither restricted nor paid additional fees.

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

- ☐ complied with.
- ☒ not complied with for the following reasons:

This authority found multiple inventions in this international application, as follows:

1. Claims 1-7,12,16 and 19 are directed to an apparatus and method for roll forming frame members from sheet metal strips, wherein U and C- section channel profiles are formed on the same metal strip simultaneously. It is considered that the simultaneous forming of U and C-section channel profiles comprises a first "special technical feature".
2. Claims 8-11 and 17 are directed to a metal frame member with a U-section channel profile over at least a part of the frame member which is swaged or narrowed in relation to the remaining channel profile. It is considered that this swaged or narrowed channel section profile comprises a second "special technical feature".
3. Claims 13-15,18 and 20 are directed to a method of constructing a building frame assembly by recording data on an area to be framed, processing the data on computing means to design a frame for the area and controlling a roll forming apparatus to produce frame members according to the design. It is considered that this method comprises a third "special technical feature".

4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:

- ☐ all parts.
- ☒ the parts relating to claims Nos. 1-12,16,17,19



**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims 2,3,5,7,16,17,19	YES
	Claims 1,4,6,8-12	NO
Inventive step (IS)	Claims 2,3,5,7,16,17,19	YES
	Claims 1,4,6,8-12	NO
Industrial applicability (IA)	Claims 1-12,16,17,19	YES
	Claims	NO

**2. Citations and explanations (Rule 70.7)**

- (a) WO 98/26884 (SAMESOR SMT) 25 June 1998
- (b) GB 2169937 (ONTEAM LTD) 23 July 1986
- (c) WO 87/01977 A1 (GOMERA PTY LTD) 9 April 1987
- (d) AU 62137/80 (CLAIR) 19 March 1981
- (e) AU 21692/77 (SACHELL) 13 July 1978
- (f) AU 52665/93 (DIE-CRAFT ENGINEERING) 20 October 1994
- (g) AU 62622/90 (LOGAN UNITS) 28 March 1991
- (h) GB 1468190 (EKERT) 23 March 1977

**Novelty (N) and Inventive Step (IS)**

Citations (a), (b) and (c) each disclose apparatus capable of simultaneously forming U and C section profiles, thus rendering claims 1 and 12 not novel or inventive. Citation (c) also discloses the movable operational unit and cutting means of claims 4 and 6.

Citations (d), (e), (f), (g) and (h) each disclose a frame assembly having a U-section and a narrowed portion and disclose all the features of claims 9 to 11. Citation (e) also discloses the C-section profile of claim 8 and the roll forming of claim 1.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/NZ 99/00149

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>																						
Int Cl <sup>7</sup> : E04B 2/58, E04C 3/07, B21D 47/00																						
According to International Patent Classification (IPC) or to both national classification and IPC																						
<b>B. FIELDS SEARCHED</b>																						
Minimum documentation searched (classification system followed by classification symbols) E04B 2/-, 1/-, E04C 3/-, B21D 1/-, 5/-, 47/- + KEYWORDS																						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AU: IPC AS ABOVE																						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT + keywords																						
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>																						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																				
X	WO 98/26884 A1 (SAMESOR SMT) 25 June 1998 See Figure 4 and description	1,12																				
X	GB 2169937A (ONTEAM LTD) 23 July 1986	1,12																				
X	WO 87/01977 A1 (GOMERA PTY LTD) 9 April 1987	1,4,6,12																				
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex																						
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A"</td> <td>document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T"</td> <td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E"</td> <td>earlier application or patent but published on or after the international filing date</td> <td>"X"</td> <td>document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L"</td> <td>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y"</td> <td>document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O"</td> <td>document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"P"</td> <td>document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>			"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family	"P"	document published prior to the international filing date but later than the priority date claimed		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention																			
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone																			
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art																			
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family																			
"P"	document published prior to the international filing date but later than the priority date claimed																					
Date of the actual completion of the international search 20 January 1999		Date of mailing of the international search report 15 FEB 2000																				
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  JON MILLS Telephone No.: (02) 6283 2113																				

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ 99/00149

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	AU A1 62137/80 (CLAIR) 19 March 1981	9-11
X	AU A1 21692/77 (SACHELL) 13 July 1978	1,8-11
X	AU A1 52665/93 (DIE-CRAFT ENGINEERING) 20 October 1994	9-11
X	AU A1 62622/90 (LOGAN UNITS) 28 March 1991	9-11
X	GB 1468190 A (EKERT) 23 March 1977	9-11

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ 99/00149

**Box I** Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

**Box II** Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

- (1) Claims 1-7, 12, 16 and 19.
- (2) Claims 8-11 and 17.
- (3) Claims 13-15, 18 and 20.

(see Box IV for details)

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 1-12, 16, 17, 19
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**☒ The additional search fees were accompanied by the applicant's protest.☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ 99/00149

**Box IV**

This International Searching Authority found multiple inventions in this international application, as follows:

1. Claims 1-7,12,16 and 19 are directed to an apparatus and method for roll forming frame members from sheet metal strips, wherein U and C- section channel profiles are formed on the same metal strip simultaneously. It is considered that the simultaneous forming of U and C-section channel profiles comprises a first "special technical feature".
2. Claims 8-11 and 17 are directed to a metal frame member with a U-section channel profile over at least a part of the frame member which is swaged or narrowed in relation to the remaining channel profile. It is considered that this swaged or narrowed channel section profile comprises a second "special technical feature".
3. Claims 13-15,18 and 20 are directed to a method of constructing a building frame assembly by recording data on an area to be framed, processing the data on computing means to design a frame for the area and controlling a roll forming apparatus to produce frame members according to the design. It is considered that this method comprises a third "special technical feature".

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
**PCT/NZ 99/00149**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO	9826884	AU	52329/98	EP	946310	FI	965070
GB	2169937	AU	51891/86	CA	1274966	CN	86100743
		NZ	210863	US	4809476	ZA	8600206
WO	8701977	AU	65452/86				
AU	62622/90	NZ	235365				
GB	1468190	AU	75443/74	JP	50106427		
							END OF ANNEX